0 to 60 dB Rotary Step Attenuator, N-type Female to N-type Female With 10 dB Step Rated to 2 Watts Up to 6 GHz

FMAT7439N-60

Features

- 10 dB steps from 0 to 60 dB Attenuation
- Rotary Dial Control
- N Female Connectors
- -20°C to +85°C Operating Temperature
- ±0.5 dB Typical Attenuation Accuracy

Applications

- Instrumentation
- Precision Measurements
- Prototyping and Characterization
- Production Systems

Description

The FMAT7439N-60 is a Step Attenuator that has 60 dB of total attenuation with 10 dB step size and rotary dial design across a frequency range from DC to 6 GHz. The design is tried and true technology that offers exceptional performance characteristics that include 1 dB maximum insertion loss, and a maximum VSWR of 1.4:1 at 6 GHz. The design also features excellent attenuation accuracy with ±0.5 dB typical at 6 GHz. The Brass package has N Female connectors, and operates within the temperature range of -20°C to 85°C.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
Impedance		50		Ohms
Insertion Loss			1	dB
Attenuation Value		0 to 60		dB
Step Size		10		dB
Step Type		Rotary		
Input Power (CW)			2	Watts
Input Power, Peak			100	Watts
5µs Pulse Width,2% DutyCycle				
VSWR			1.4:1	

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 6					GHz
Attenuation Accuracy	0.5					dB

Electrical Specification Notes:
Attenuation Accuracy specification is ±3% dB typ for any attenuation above 40dB.

Mechanical Specifications

Size

Length	2.44 in [61.98 mm]
Width	1.181 in [30 mm]
Height	1.622 in [41.2 mm]
Weight	0.5 lbs [226.8 g]

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Connectors

Description	Connector 1	Connector 2
Type	N Female	N Female
Contact Material and Plating	Beryllium Copper, Gold	
Body Material and Plating	Brass, Nickel	Brass, Nickel

Environmental Specifications

Temperature

Operating Range	-20 to 85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

0 to 60 dB Rotary Step Attenuator, N-type Female to N-type Female With 10 dB Step Rated to 2 Watts Up to 6 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 0 to 60 dB Rotary Step Attenuator, N-type Female to N-type Female With 10 dB Step Rated to 2 Watts Up to 6 GHz FMAT7439N-60

URL: https://www.fairviewmicrowave.com/60db-step-attenuator-10db-n-female-dc-6-ghz-2-watts-fmat7439n-60-p.aspx

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FMAT7439N-60 CAD Drawing

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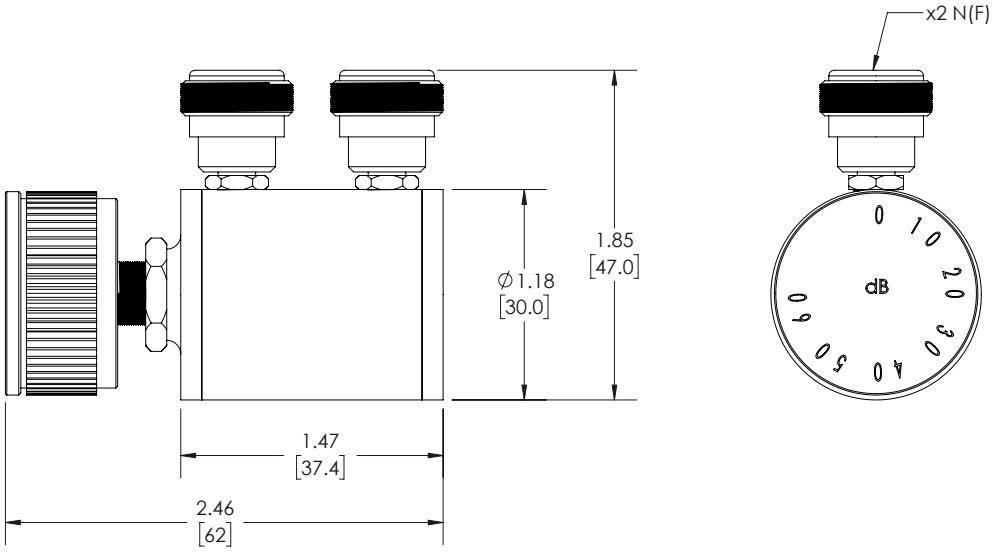
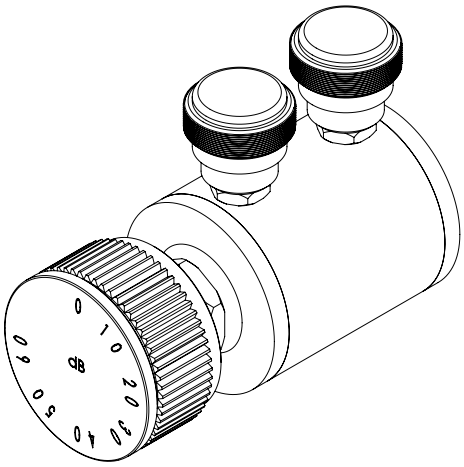
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	06/21/2022	SPONG





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TITLE

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ± .2 [5.08]
.XX = ± .02 [.51]
.XXX = ± .005 [.13]
FRACTIONS ± 1/32
ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	PSRINIVAS	FMAT7439N-60	A

T-Rev.D

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